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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/521,563	08/01/2005 Detlef Knebel		0075/021001	2956	
22893 SMITH PATEN	7590 02/01/200 NT OFFICE	EXAMINER			
	LVANIA AVENUE N	LOGIE, MICHAEL J			
SUITE 901 WASHINGTO	N, DC 20006	ART UNIT	PAPER NUMBER		
			2881		
		MAIL DATE	DELIVERY MODE		
			02/01/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summany		Applicatio	Application No. Applicant(s)						
		10/521,563	3	KNEBEL ET AL.					
Office Action Summary			Examiner		Art Unit				
			MICHAEL	J. LOGIE	2881				
Period fo	The MAILING DATE of this commun or Reply	nication app	ears on the	cover sheet with the o	correspondence ad	ddress			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SOLUTION OF THE INSIGN OF THE INSI	MAILING DA s of 37 CFR 1.13 munication. tatutory period w y will, by statute,	ATE OF THI 66(a). In no ever ill apply and will cause the applic	S COMMUNICATION It, however, may a reply be the expire SIX (6) MONTHS from the cation to become ABANDONE	N. mely filed the mailing date of this of ED (35 U.S.C. § 133).				
Status									
1) 又	Responsive to communication(s) file	ed on <i>13 No</i>	ovember 20	07					
· · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>13 November 2007</u> . This action is FINAL . 2b) This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
٥/١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims			, ,, .					
		annliaation							
•	Claim(s) <u>1-22</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
· · _ ·	Claim(s) <u>1-6 and 12-17</u> is/are allow								
· · —	Claim(s) <u>7-9 and 18-20</u> is/are rejected.								
•	Claim(s) <u>10,11,21 and 22</u> is/are obj								
8)	8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
9)	The specification is objected to by th	ne Examiner	r.						
10)	The drawing(s) filed on is/are	: a) <u></u> acce	epted or b)[objected to by the	Examiner.				
	Applicant may not request that any obje	ection to the c	drawing(s) be	held in abeyance. Se	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ເ	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date			4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Response to Arguments

Applicant's arguments, seen in pages 9-11, filed November 13, 2007, with respect to claims 1-22 have been fully considered and are persuasive. The rejection of August 10, 2007 has been withdrawn.

Response to Amendment

An "Amendment" was received on November 13, 2007, in response to Office Action of August 10, 2007. Claims 12-22 have been added. Claims 1-22 are pending.

Allowable Subject Matter

Claims 1-6 and 12-17 are allowed.

The following is an examiner's statement of reasons for allowance:

In regards to claim 1, prior art fails to disclose an apparatus for a scanning microscope, in particular a scanning force microscope, comprising a measurement probe which defines a near field, and having a scanning unit which allows the measurement probe to move relative to a sample in all three spatial directions, in conjunction with a mass spectrometer with an ionization unit, an extraction unit and an analysis unit, wherein the measurement probe has a hollow tip so that the near field of the measurement probe can be used by the ionization unit in such a way that ions are formed only in the near field of the measurement probe, and the shape of the

measurement probe allows an essentially axially symmetrical field distribution of the extraction unit with respect to the axis of the analysis unit.

Claims 2-6 are allowed by virtue of their dependencies on the independent claim 1.

In regards to claim 12, prior art fails to disclose an apparatus for a scanning microscope, comprising a measurement probe which defines a near field and a scanning unit which allows the measurement probe to move relative to a sample in all three spatial directions in conjunction with a mass spectrometer with an ionization unit, an extraction unit and an analysis unit, wherein the measurement probe has a hollow tip so that the near field of the measurement probe can be used by the ionization unit such that ions are formed only in the near field of the measurement probe, and a shape of the measurement probe allows an essentially axially symmetrical field distribution of the extraction unit with respect to an axis of the analysis unit.

Claims 13-17 are allowed by virtue of their dependencies on the independent claim 12.

Claim Objections

Claims 10, 11, 21 and 22 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 7-9 and 18-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Henderson (US pgPub 2003/0134273).

In regards to claims 7 and 18, Henderson teaches a method for high-resolution examination of a measurement sample using a combined scanning probe microscope, in particular a scanning force microscope (fig. 1), wherein the scanning probe microscope is first of all used to record an image of the measurement sample, in particular of the topography of the measurement sample ([0052]), and wherein a mass spectrometer is then used for destructive, chemical characterization of at least subareas of sections of the measurement sample which are covered by the image ([0068]).

In regards to claims 8 and 19, Henderson teaches the method as claimed in claim 7, wherein the selected areas are chosen successively such that the entire area imaged by the scanning probe microscope is analyzed, thus additionally resulting in a chemical image of the sample ([0068]).

In regards to claims 9 and 20, Henderson teaches the method as claimed in claim 7, wherein further ablation of the measurement sample leads to high-resolution

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depth information ([0068], it is inherent that further ablation of a sample leads to high-resolution depth information, since the more desorption of the sample to the mass spectrometer results in a higher molecular image).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See non claim rejection references listed in the references cited form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Logie whose telephone number is 571-270-1616. The examiner can normally be reached on 7:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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ml

/Robert Kim/

Supervisory Patent Examiner, Art Unit 2881